

obi Serialize: s = Serializer(inst)# Object instance -> Data dict s = Serializer(instance) s.data s.data Deserialize (create): # dict -> Object s = Serializer(data={..}) s = Serializer(data) s.is valid() instance = s.save() s.is valid() Validation: s.save() s = Serializer(data={..}) if s.is valid(raise exception=False): s.validated_data s.errors # dict(field=[problems..]) Update: s = Serializer(instance, validated_data, partial=True) new = s.save()Serializer Classes: class SimpleSerializer(serializers.Serializer): name = serializers.CharField(max length=128) user = UserSerializer(required=false) # nested def create(self, validated_data): kwargs = self.context['view'].kwargs return instance def update(self, instance, validated data): # if self.partial return instance def save(self, **kwarqs): # instance = super().save(**kwarqs) nm = self.validated_data.get('name') instance = model object.save() return instance

def validate <field>(self, name): def validate_name(self, name): if not name: raise serializers.ValidationError('Name required') return name

raise serializers.ValidationError({'name': ..})

class DbSerializer(serializers.ModelSerializer):

list serializer class = DbListSerializer def to_representation(self, obj) → Dict def to_internal(self, data) → Dict # validated



if not nm:

class Meta:

def validate(self, data):

nm = data.get('name')

return validated data

model = DbModel fields = [..]

Django DRF Cheat Sheet

Create Serializer(data={..}); s.save(): Object Serialize Serializer(instance); s.data: Dict Serializer(instance, data={..}, partial=True) Update Set Serializer(instance, data={..})

Serializer Fields:

Common: CharField, UUIDField, NullBooleanField, DateTimefield, JSONField, EmailField, ...

Special: SerializerMethodField, RelatedField, PrimaryKeyRelatedField, SlugRelatedField, HyperlinkedRelatedField..

Field Args

	Default	Input	Output	Notes
read_only	False	no	yes	
write_only	False	yes	no	
required	True	yes	yes	raise if missing
allow_null	False			None is allowed
default	<value></value>	sets		If set, don't use the arg "required"
source	the python form of field access like "user.address.zip" (not double underscore) OR a callable name on the object like get_primary_phone()			

Request

- request.data dict of (post, put, patch) request.query_param (get) request.user (django.contrib.auth.models.AnonymousUser) request.auth (usually a model instance) - HTTP stuff: request.method (e.g. GET), .content_type (e.g.
- view() functions

```
# urls.py
urlpatterns = [
  path(r'viewfn/<int:argl>/', views.my view fn),
# views.pv
from django.http import JsonResponse
  def my view fn(request, arg1=None):
    if request.method == 'POST':
      return JsonResponse({}, status=201)
```

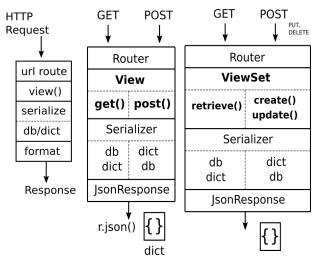
application/json), .META, .headers, .path

from rest framework.test import APIClient, APITestCase

class MyTests(APITestCase): def test basics(self): client = APIClient() response = client.post(f'/viewtest/{arg1}', data={..}) assert response.status code == 200 assert response.json().get('name') == name

Views

<pre>class SimpleView(APIView): def post(self, request, *args, **kwargs): request.data.get('name') return Response()</pre>
<pre>def get(self, request, *args, **kwargs): request.query_params.get('name')</pre>
def patch(self, request, *args, **kwargs):
<pre>def delete(self, request, *args, **kwargs): </pre>



ViewSets (ModelViewSets)

from rest framework import permissions

```
class SimpleViewSet(ViewSet): # ModelViewSet
    serializer class = SimpleSerializer
    # queryset = SimpleModel.objects.all()
    lookup_field = 'field'
    authentication classes = (...,)
    permissions_classes = (permissions.IsAuthenticated,)
    # permissions_classes = (permissions.AllowAny,)
    # filter backends = (...,)
    def create(self, request, *args, **kwargs):
      return Response(..)
    def update(self, request, *args, **kwargs):
    def partial_update(self, request, *args, **kwargs):
    def destroy(self, request, *args, **kwargs):
    def retrieve(self, request, *args, **kwargs):
    def list(self, request, *args, **kwargs):
    def get_queryset(self):
        # related to self.queryset
        data = self.request.data
        qp = self.request.query_params
        kwargs = self.kwargs # args for view
    def get_object(self): → instance
        # see self.lookup field
    def get serializer(self):
    def get serializer context(self): → dict(request=, view=
    @detail router(['GET', 'POST'])
    def custom(request, *args, **kwargs):
from rest_framework.routers import DefaultRouter
router = DefaultRouter()
router.register(
    r'viewset', example.SimpleViewSet, basename='Simple')
urlpatterns = [
    path(r'', include(router.urls)),
```

What Goes Here?